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Prüfung grösserer Zahlen auf ihre Eigenschaft als Primzahlen.

(Fortsetzung von Vol. VII, Nro. 3.)

Von P. Seelhoff.

Als Fortsetzung meiner Ausführungen in Nro. 3 gebe ich zunächst eine tabellarische Zusammenstellung von 192 negativen Determinanten. Die Tabelle besteht aus 3 Kolonnen. Die erste mit der Aufschrift D giebt die Determinanten selbst, die zweite die daraus abgeleiteten Hauptformen (Formae principales) und die dritte den Gesammtcharakter dieser Formen. Als wesentlichste und für den vorliegenden Zweck nothwendige Eigenschaft dieser Hauptformen soll noch einmal hervorgehoben werden, dass neben ihnen keine anderen reducirten Formen mit demselben Gesammtcharakter bestehen. Die Bezeichnung der einzelnen Charaktere $3n + r$, $3n - r$, etc. bedeutet, dass die Zahl N, welche dargestellt werden soll, für 3 etc. quadratischer Rest, resp. Nichtrest ist. Haben mehrere Formen denselben Gesammtcharakter, so ist dieser nur bei der ersten Form ausführlich angegeben.

Eine auch für die Zahltypen $8n + 3$, $8n + 5$ und $8n + 7$ durchgeführte Sonderung der Formen erschien mir nicht zweckmässig, weil hierdurch zu viele Wiederholungen nothwendig würden, und wenn ich nach eigener Erfahrung urtheilen darf, so ist die jetzt gewählte Zusammenstellung für den Gebrauch von hinreichender Uebersichtlichkeit.

Ich möchte dies an einem Beispiele nachweisen, welches mir zugleich Gelegenheit geben wird, das in dem früheren Aufsatze über das Verfahren Beigebrachte in einzelnen Punkten zu ergänzen.

Herr J. W. L. Glaisher in Cambridge äussert sich in einem seiner Aufsätze, wie folgt: "The process of determining without a table the factors of a number is excessively laborious. Thus to determine, for example, whether the number 8559091 is or not a prime would require a long day's work." Sehen wir zu!

Es findet sich sofort, dass diese Zahl N quadratischer Rest für 3, 5, 7, 17, 19, 23, dagegen Nichtrest für 11, 13, 29, 31 ist. Unter den Formen, für welche sich einige dieser Charaktere in Verbindung mit dem besonderen Charakter $8n + 3$ vereinigt finden, wähle ich die beiden Hauptformen (15, 0, 364) und (60, 0, 91) der Determinante -5460, für welche mein hat $3n + r$, $5n + r$, $7n + r$, $13n - r$; $8n + 3$, 7,

1. $$15a + 364b = N$$

Da $N \equiv 1\,(15)$, $364 \equiv 4\,(15)$ und $4.4 \equiv 1\,(15)$ ist, so subtrahire ich 364.4 von N und dividire durch 15. Dann ist

$$a = 575509 - 364k$$
$$b = 4 + 15k.$$

Ferner hat man $575509 \equiv 4\,(7)$, $\equiv 12\,(13)$; setzt man demnach

$$15x^2 + 364y^2 = N,$$

so ist $x = 4t \pm 1 = 7u \pm 2 = 13v \pm 5$ und weil $\sqrt{575509} = 758$ die obere Grenze bildet

$x =$ 5, 47, 135, 177, 187, 229, 317, 359,
369, 411, 499, 541, 551, 593, 681, 723,
733.

Leitet man hieraus mit Hülfe von Quadratzahlentafeln k und in zweiter Linie b ab, so wird letzeres für keinen dieser Werte ein Quadrat.

2. $$60a + 91b = N.$$

Aehnlich wie oben findet man

$$a = 142650 - 91k$$
$$b = 1 + 60k$$

$x =$ 12, 40, 51, 79
103, 131, 142, 170
194, 222, 233, 261
285, 313, 324, 362
376.

Nur für $x = 376$ ist b oder $y^2 =$ einem Quadrate, nämlich $841 = 29^2$. Also ist $8559093 = 60.376^2 + 91.29^2$ eine Primzahl.

Ich muss ferner auf das in dem ersten Artikel gesagte noch in einer anderen Beziehung zurückkommen. An ein oder zwei Stellen, wo es sich um mehrere Hauptformen mit gemeinschaftlichem Gesammtcharakter handelt, war meine Ausdrucksweise vielleicht nicht genau genug, ich gestatte mir deshalb, um jedem Misverständnisse vorzubeugen, noch einige Worte.

Aus der Determinante -1012 lassen sich, um ein Beispiel anzuführen folgende Hauptformen ableiten.

$$\left\{\begin{matrix}1, & 0, & 1012\\ 4, & 0, & 253\end{matrix}\right\} \text{ und } \left\{\begin{matrix}11, & 0, & 92\\ 23, & 0, & 44\end{matrix}\right\}.$$

Die beiden Formen in der ersten Klammer haben denselben Gesammtcharakter, ebenso die beiden in der zweiten Klammer. Nennt man nun nach Gauss einen solchen Complex von Formen mit demselben Gesammtcharakter eine Gattung (genus), so ergiebt sich für sämmtliche 192 Determinanten folgendes: Erhält man aus *sämmtlichen* Formen einer Gattung nur eine Darstellung der Zahl N, so ist diese eine Primzahl; erhält man keine Darstellung, so ist N zusammengesetzt. Erhält man mehr als eine Darstellung für eine und dieselbe Form oder auch für mehrere der Gattung angehörige, so lässt sich aus einem Paare solcher Darstellungen ein Paar Faktoren von N ableiten.

Wie dies geschehen kann für den Fall, dass beide Darstellungen durch dieselbe Form gebildet werden, habe ich in dem ersten Artikel nach dem Vorgange Eulers gezeigt; es bleibt also noch der andere Fall übrig, dass zwei verschiedene Formen zur Darstellung dienen. Sei also für die Determinante $-mnp$

$$mnx^2 + py^2 = N \quad (1)$$
$$m\xi^2 + np\eta^2 = N \quad (2)$$

so multiplicire man (2) mit nx^2 und (1) mit ξ^2, dann ist

$$mn(\xi x)^2 + p(\xi y)^2 = \xi^2 N$$
$$mn(\xi x)^2 + p(n\eta x)^2 = nx^2 N$$

und hieraus

$$p\{(\xi y)^2 - (n\eta x)^2\} = (\xi^2 - nx^2)N.$$

Bestimmt man jetzt noch den grössten gemeinschaftlichen Divisor von $\xi y + n\eta x$ oder $\xi y - n\eta x$ und N, so ist dieser einer der gesuchten Divisoren.

BREMEN im Mai 1885.

D	Formen.	Charaktere.	D	Formen.	Charaktere.
— 1	1, 0, 1	$8n+1$, 5	— 42	6, 0, 7	$3n+r$, $7n-r$; $8n+5$, 7
— 2	1, 0, 2	$8n+1$, 3	— 45	1, 0, 45	$3n+r$, $5n+r$; $8n+1$, 5
— 3	1, 0, 3	$3n+r$; $8n+1$, 3, 5, 7		5, 0, 9	$3n-r$, $5n+r$; $8n+1$, 5
— 4	1, 0, 4	$8n+1$, 5	— 46	1, 0, 46	$23n+r$; $8n+1$, 7
— 5	1, 0, 5	$5n+r$; $8n+1$, 5		2, 0, 23	" ; "
— 6	1, 0, 6	$3n+r$; $8n+1$, 7	— 48	1, 0, 48	$3n+r$; $8n+1$
	2, 0, 3	$3n-r$; $8n+3$, 5		3, 0, 16	$3n+r$; $8n+3$
— 7	1, 0, 7	$7n+r$; $8n+1$, 3, 5, 7	— 55	1, 0, 55	$5n+r$, $11n+r$; $8n+1$, 3, 5, 7
— 8	1, 0, 8	$8n+1$,		5, 0, 11	" ; "
9	1, 0, 9	$3n+r$; $8n+1$, 5	— 57	1, 0, 57	$3n+r$, $19n+r$; $8n+1$, 5
—10	1, 0, 10	$5n+r$; $8n+1$, 3		3, 0, 19	$3n+r$, $19n-r$; $8n+3$, 7
	2, 0, 5	$5n-r$; $8n+5$, 7	— 58	1, 0, 58	$29n+r$; $8n+1$, 3
—12	1, 0, 12	$3n+r$; $8n+1$, 5		2, 0, 29	$29n-r$; $8n+5$, 7
	3, 0, 4	$3n+r$; $8n+3$, 7	— 60	1, 0, 60	$3n+r$, $5n+r$; $8n+1$, 5
—13	1, 0, 13	$13n+r$; $8n+1$, 5		3, 0, 20	$3n-r$, $5n-r$; $8n+3$, 7
—14	1, 0, 14	$7n+r$; $8n+1$, 7		4, 0, 15	$3n+r$, $5n+r$; $8n+3$, 7
	2, 0, 7	" ; "		5, 0, 12	$3n-r$, $5n-r$; $8n+1$, 5
—15	1, 0, 15	$3n+r$, $5n+r$; $8n+1$, 3, 5, 7	— 63	1, 0, 63	$3n+r$, $7n+r$; $8n+1$, 3, 5, 7,
	3, 0, 5	$3n-r$, $5n-r$; $8n+1$, 3, 5, 7		7, 0, 9	" ; "
—16	1, 0, 16	$8n+1$	— 66	1, 0, 66	$3n+r$, $11n+r$; $8n+1$, 3
—18	1, 0, 18	$3n+r$; $8n+1$, 3		3, 0, 22	" ; "
	2, 0, 9	$3n-r$; $8n+1$, 3		2, 0, 33	$3n-r$, $11n-r$; $8n+1$, 3
—20	1, 0, 20	$5n+r$; $8n+1$, 5		6, 0, 11	" ; "
	4, 0, 5	" ; "	— 70	1, 0, 70	$5n+r$, $7n+r$; $8n+1$, 7
—21	1, 0, 21	$3n+r$, $7n+r$; $8n+1$, 5		2, 0, 35	$5n-r$, $7n+r$; $8n+3$, 5
	3, 0, 7	$3n+r$, $7n-r$; $8n+3$, 7		5, 0, 14	$5n+r$, $7n-r$; $8n+3$, 5
—22	1, 0, 22	$11n+r$; $8n+1$, 7		7, 0, 10	$5n-r$, $7n-r$; $8n+1$, 7
	2, 0, 11	$11n-r$; $8n+3$, 5	— 72	1, 0, 72	$3n+r$; $8n+1$
—24	1, 0, 24	$3n+r$; $8n+1$		8, 0, 9	$3n-r$; $8n+1$
	3, 0, 8	$3n-r$; $8n+3$	— 78	1, 0, 78	$3n+r$, $13n+r$; $8n+1$, 7
—25	1, 0, 25	$5n+r$; $8n+1$, 5		2, 0, 39	$3n-r$, $13n-r$; $8n+1$, 7
—28	1, 0, 28	$7n+r$; $8n+1$, 5		3, 0, 26	$3n-r$, $13n+r$; $8n+3$, 5
	4, 0, 7	$7n+r$; $8n+3$, 7		6, 0, 13	$3n+r$, $13n-r$; $8n+3$, 5
—30	1, 0, 30	$3n+r$, $5n+r$; $8n+1$, 7	— 82	1, 0, 82	$41n+r$; $8n+1$, 3
	2, 0, 15	$3n-r$, $5n-r$; $8n+1$, 7		2, 0, 41	" ; "
	3, 0, 10	$3n+r$, $5n-r$; $8n+3$, 5	— 84	1, 0, 84	$3n+r$, $7n+r$; $8n+1$, 5
	5, 0, 6	$3n-r$, $5n+r$; $8n+3$, 5		4, 0, 21	" ; "
—33	1, 0, 33	$3n+r$, $11n+r$; $8n+1$, 5		3, 0, 28	$3n+r$, $7n-r$; $8n+3$, 7
	3, 0, 11	$3n-r$, $11n+r$; $8n+3$, 7		7, 0, 12	" ; "
—34	1, 0, 34	$17n+r$; $8n+1$, 3	— 85	1, 0, 85	$5n+r$, $17n+r$; $8n+1$, 5
	2, 0, 17	" ; "		5, 0, 17	$5n-r$, $17n-r$; $8n+1$, 5
—36	1, 0, 36	$3n+r$; $8n+1$, 5	— 88	1, 0, 88	$11n+r$; $8n+1$
	4, 0, 9	" ; "		8, 0, 11	$11n-r$; $8n+3$
—37	1, 0, 37	$37n+r$; $8n+1$, 5	— 90	1, 0, 90	$3n+r$, $5n+r$; $8n+1$, 3
—39	1, 0, 39	$3n+r$, $13n+r$; $8n+1$, 3, 5, 7		9, 0, 10	" ; "
	3, 0, 13	" ; "		2, 0, 45	$3n-r$, $5n-r$; $8n+5$, 7
—40	1, 0, 40	$5n+r$; $8n+1$		5, 0, 18	" ; "
	5, 0, 8	$5n-r$; $8n+5$	— 93	1, 0, 93	$3n+r$, $31n+r$; $8n+1$, 5
—42	1, 0, 42	$3n+r$, $7n+r$; $8n+1$, 3		3, 0, 31	$3n+r$, $31n-r$; $8n+3$, 7
	2, 0, 21	$3n-r$; $7n+r$; $8n+5$, 7	—100	1, 0, 100	$5n+r$; $8n+1$, 5
	3, 0, 14	$3n-r$, $7n-r$; $8n+1$, 3		4, 0, 25	" ; "

D	Formen.	Charaktere.
—102	1, 0, 102	$3n+r$, $17n+r$; $8n+1$, 7
	2, 0, 51	$3n-r$, $17n+r$; $8n+3$, 5
	3, 0, 34	$3n+r$, $17n-r$; $8n+3$, 5
	6, 0, 17	$3n-r$, $17n-r$; $8n+1$, 7
—105	1, 0, 105	$3n+r$, $5n+r$, $7n+r$; $8n+1$, 5
	3, 0, 35	$3n-r$, $5n-r$, $7n-r$; $8n+3$, 7
	5, 0, 21	$3n-r$, $5n+r$, $7n-r$; $8n+1$, 5
	7, 0, 15	$3n+r$, $5n-r$, $7n+r$; $8n+3$, 7
—112	1, 0, 112	$7n+r$; $8n+1$
	7, 0, 16	$7n+r$; $8n+7$
—117	1, 0, 117	$3n+r$, $13n+r$; $8n+1$, 5
	9, 0, 13	" ; "
—120	1, 0, 120	$3n+r$, $5n+r$; $8n+1$
	3, 0, 40	$3n+r$, $5n-r$; $8n+3$
	5, 0, 24	$3n-r$, $5n+r$; $8n+5$
	8, 0, 15	$3n-r$, $5n-r$; $8n+7$
—130	1, 0, 130	$5n+r$, $13n+r$; $8n+1$, 3
	2, 0, 65	$5n-r$, $13n-r$; $8n+1$, 3
	5, 0, 26	$5n+r$, $13n-r$; $8n+5$, 7
	10, 0, 13	$5n-r$, $13n+r$; $8n+5$, 7
—132	1, 0, 132	$3n+r$, $11n+r$; $8n+1$, 5
	4, 0, 33	" ; "
	3, 0, 44	$3n-r$, $11n+r$; $8n+3$, 7
	11, 0, 12	" ; "
—133	1, 0, 133	$7n+r$, $19n+r$; $8n+1$, 5
	7, 0, 19	$7n-r$, $19n+r$; $8n+3$, 7
—136	1, 0, 136	$17n+r$; $8n+1$
	8, 0, 17	" ; "
—138	1, 0, 138	$3n+r$, $23n+r$; $8n+1$, 3
	3, 0, 46	" ; "
	2, 0, 69	$3n-r$, $23n+r$; $8n+5$, 7
	6, 0, 23	" ; "
—142	1, 0, 142	$71n+r$; $8n+1$, 7
	2, 0, 71	" ; "
—144	1, 0, 144	$3n+r$; $8n+1$
	9, 0, 16	" ; "
—145	1, 0, 145	$5n+r$, $29n+r$; $8n+1$, 5
	5, 0, 29	" ; "
—150	1, 0, 150	$3n+r$, $5n+r$; $8n+1$, 7
	6, 0, 25	" ; "
	2, 0, 75	$3n-r$, $5n-r$; $8n+3$, 5
	3, 0, 50	" ; "
—154	1, 0, 154	$7n+r$, $11n+r$; $8n+1$, 3
	11, 0, 14	" ; "
	2, 0, 77	$7n+r$, $11n-r$; $8n+5$, 7
	7, 0, 22	" ; "
—156	1, 0, 156	$3n+r$, $13n+r$; $8n+1$, 5
	12, 0, 13	" ; "
	3, 0, 52	$3n+r$, $13n+r$; $8n+3$, 7
	4, 0, 39	" ; "

D	Formen.	Charaktere.
—165	1, 0, 165	$3n+r$, $5n+r$, $11n+r$; $8n+1$, 5
	3, 0, 55	$3n+r$, $5n-r$, $11n+r$; $8n+3$, 7
	5, 0, 33	$3n-r$, $5n-r$, $11n+r$; $8n+1$, 5
	11, 0, 15	$3n-r$, $5n+r$, $11n+r$; $8n+3$, 7
—168	1, 0, 168	$3n+r$, $7n+r$; $8n+1$
	3, 0, 56	$3n-r$, $7n-r$; $8n+3$
	7, 0, 24	$3n+r$, $7n-r$; $8n+7$
	8, 0, 21	$3n-r$, $7n+r$; $8n+5$
—177	1, 0, 177	$3n+r$, $59n+r$; $8n+1$, 5
	3, 0, 59	$3n-r$, $59n+r$; $8n+3$, 7
—180	1, 0, 180	$3n+r$, $5n+r$; $8n+1$, 5
	4, 0, 45	" ; "
	5, 0, 36	$3n-r$, $5n+r$; $8n+1$, 5
	9, 0, 20	" ; "
—190	1, 0, 190	$5n+r$, $19n+r$; $8n+1$, 7
	2, 0, 95	$5n-r$, $19n-r$; $8n+1$, 7
	5, 0, 38	$5n-r$, $19n+r$; $8n+3$, 5
	10, 0, 19	$5n+r$, $19n-r$; $8n+3$, 5
—198	1, 0, 198	$3n+r$, $11n+r$; $8n+1$, 7
	9, 0, 22	" ; "
	2, 0, 99	$3n-r$, $11n-r$; $8n+3$, 5
	11, 0, 18	" ; "
—205	1, 0, 205	$5n+r$, $41n+r$; $8n+1$, 5
	5, 0, 41	" ; "
—210	1, 0, 210	$3n+r$, $5n+r$, $7n+r$; $8n+1$, 3
	2, 0, 105	$3n-r$, $5n-r$, $7n+r$; $8n+1$, 3
	3, 0, 70	$3n+r$, $5n-r$, $7n-r$; $8n+1$, 3
	5, 0, 42	$3n-r$, $5n-r$, $7n-r$; $8n+5$, 7
	6, 0, 35	$3n-r$, $5n+r$, $7n-r$; $8n+1$, 3
	7, 0, 30	$3n+r$, $5n-r$, $7n+r$; $8n+5$, 7
	10, 0, 21	$3n+r$, $5n+r$, $7n-r$; $8n+5$, 7
	14, 0, 15	$3n-r$, $5n+r$, $7n+r$; $8n+5$, 7
—220	1, 0, 220	$5n+r$, $11n+r$; $8n+1$, 5
	5, 0, 44	" ; "
	4, 0, 55	$5n+r$, $11n+r$; $8n+3$, 7
	11, 0, 20	" ; "
—225	1, 0, 225	$3n+r$, $5n+r$; $8n+1$, 5
	9, 0, 25	" ; "
—228	1, 0, 228	$3n+r$, $19n+r$; $8n+1$, 5
	4, 0, 57	" ; "
	3, 0, 76	$3n+r$, $19n-r$; $8n+3$, 7
	12, 0, 19	" ; "
—232	1, 0, 232	$29n+r$; $8n+1$
	8, 0, 29	$29n-r$; $8n+5$
—240	1, 0, 240	$3n+r$, $5n+r$; $8n+1$
	3, 0, 80	$3n-r$, $5n-r$; $8n+3$
	5, 0, 48	$3n-r$, $5n-r$; $8n+5$
	15, 0, 16	$3n+r$, $5n+r$; $8n+7$
—252	1, 0, 252	$3n+r$, $7n+r$; $8n+1$, 5
	9, 0, 28	" ; "

D	Formen.	Charaktere.
−252	4, 0, 63	$3n+r$, $7n+r$; $8n+3$, 7
	7, 0, 36	" ; "
−253	1, 0, 253	$11n+r$, $23n+r$; $8n+1$, 5
	11, 0, 23	$11n+r$, $23n-r$; $8n+3$, 7
−258	1, 0, 258	$3n+r$, $43n+r$; $8n+1$, 3
	6, 0, 43	" ; "
	2, 0, 129	$3n-r$, $43n-r$; $8n+1$, 3
	3, 0, 86	" ; "
−273	1, 0, 273	$3n+r$, $7n+r$, $13n+r$; $8n+1$, 5
	3, 0, 91	$3n+r$, $7n-r$, $13n+r$; $8n+3$, 7
	7, 0, 39	$3n+r$, $7n+r$, $13n-r$; $8n+3$, 7
	13, 0, 21	$3n+r$, $7n-r$, $13n-r$; $8n+1$, 5
−280	1, 0, 280	$5n+r$, $7n+r$; $8n+1$
	5, 0, 56	$5n+r$, $7n-r$; $8n+5$
	7, 0, 40	$5n-r$, $7n-r$; $8n+7$
	8, 0, 35	$5n-r$, $7n+r$; $8n+3$
−282	1, 0, 282	$3n+r$, $47n+r$; $8n+1$, 3
	3, 0, 94	" ; "
	2, 0, 141	$3n-r$, $47n+r$; $8n+5$, 7
	6, 0, 47	" ; "
−310	1, 0, 310	$5n+r$, $31n+r$; $8n+1$, 7
	10, 0, 31	" ; "
	2, 0, 155	$5n-r$, $31n+r$; $8n+3$, 5
	5, 0, 62	" ; "
−312	1, 0, 312	$3n+r$, $13n+r$; $8n+1$
	3, 0, 104	$3n-r$, $13n+r$; $8n+3$
	8, 0, 39	$3n-r$, $13n-r$; $8n+7$
	13, 0, 24	$3n+r$, $13n-r$; $8n+5$
−328	1, 0, 328	$41n+r$; $8n+1$
	8, 0, 41	" ; "
−330	1, 0, 330	$3n+r$, $5n+r$, $11n+r$; $8n+1$, 3
	2, 0, 165	$3n-r$, $5n-r$, $11n-r$; $8n+5$, 7
	3, 0, 110	$3n-r$, $5n-r$, $11n+r$; $8n+1$, 3
	5, 0, 66	$3n-r$, $5n+r$, $11n+r$; $8n+5$, 7
	6, 0, 55	$3n+r$, $5n+r$, $11n-r$; $8n+5$, 7
	10, 0, 33	$3n+r$, $5n-r$, $11n-r$; $8n+1$, 3
	11, 0, 30	$3n-r$, $5n+r$, $11n-r$; $8n+1$, 3
	15, 0, 22	$3n+r$, $5n-r$, $11n+r$; $8n+5$, 7
−333	1, 0, 333	$3n+r$, $37n+r$; $8n+1$, 5
	9, 0, 37	" ; "
−340	1, 0, 340	$5n+r$, $17n+r$; $8n+1$, 5
	4, 8, 85	" ; "
	5, 0, 68	$5n-r$, $17n-r$; $8n+1$, 5
	17, 0, 20	" ; "
−345	1, 0, 345	$3n+r$, $5n+r$, $23n+r$; $8n+1$, 5
	3, 0, 115	$3n+r$, $5n-r$, $23n+r$; $8n+3$, 7
	5, 0, 69	$3n-r$, $5n+r$, $23n-r$; $8n+1$, 5
	15, 0, 23	$3n-r$, $5n-r$, $23n-r$; $8n+3$, 7
−357	1, 0, 357	$3n+r$, $7n+r$, $17n+r$; $8n+1$, 5
	3, 0, 119	$3n-r$, $7n-r$, $17n-r$; $8n+3$, 7
	7, 0, 51	$3n+r$, $7n+r$, $17n-r$; $8n+3$, 7
−357	17, 0, 21	$3n-r$, $7n-r$, $17n+r$; $8n+1$, 5
−360	1, 0, 360	$3n+r$, $5n+r$; $8n+1$
	9, 0, 40	" ; "
	5, 0, 72	$3n-r$, $5n-r$; $8n+5$
	8, 0, 45	" ; "
−372	1, 0, 372	$3n+r$, $31n+r$; $8n+1$, 5
	4, 0, 93	" ; "
	3, 0, 124	$3n+r$, $31n-r$; $8n+3$, 7
	12, 0, 31	" ; "
−385	1, 0, 385	$5n+r$, $7n+r$, $11n+r$; $8n+1$, 5
	5, 0, 77	$5n-r$, $7n-r$, $11n+r$; $8n+1$, 5
	7, 0, 55	$5n-r$, $7n-r$, $11n-r$; $8n+3$, 7
	11, 0, 35	$5n+r$, $7n+r$, $11n-r$; $8n+3$, 7
−390	1, 0, 390	$3n+r$, $5n+r$, $13n+r$; $8n+1$, 7
	10, 0, 39	" ; "
	3, 0, 130	$3n+r$, $5n-r$, $13n+r$; $8n+3$, 5
	13, 0, 30	" ; "
	2, 0, 195	$3n-r$, $5n-r$, $13n-r$; $8n+3$, 5
	5, 0, 78	" ; "
	6, 0, 65	$3n-r$, $5n+r$, $13n-r$; $8n+1$, 7
	15, 0, 26	" ; "
−408	1, 0, 408	$3n+r$, $17n+r$; $8n+1$
	3, 0, 136	$3n+r$, $17n-r$; $8n+3$
	8, 0, 51	$3n-r$, $17n+r$; $8n+3$
	17, 0, 24	$3n-r$, $17n-r$; $8n+1$
−420	1, 0, 420	$3n+r$, $5n+r$, $7n+r$; $8n+1$, 5
	4, 0, 105	" ; "
	3, 0, 140	$3n-r$, $5n-r$, $7n-r$; $8n+3$, 7
	12, 0, 35	" ; "
	5, 0, 84	$3n-r$, $5n+r$, $7n-r$; $8n+1$, 5
	20, 0, 21	" ; "
	7, 0, 60	$3n+r$, $5n-r$, $7n+r$; $8n+3$, 7
	15, 0, 28	" ; "
−438	1, 0, 438	$3n+r$, $73n+r$; $8n+1$, 7
	6, 0, 73	" ; "
	2, 0, 219	$3n-r$, $73n+r$; $8n+3$, 5
	3, 0, 146	" ; "
−442	1, 0, 442	$13n+r$, $17n+r$; $8n+1$, 3
	17, 0, 26	" ; "
	2, 0, 221	$13n-r$, $17n+r$; $8n+5$, 7
	13, 0, 34	" ; "
−445	1, 0, 445	$5n+r$, $89n+r$; $8n+1$, 5
	5, 0, 89	" ; "
−462	1, 0, 462	$3n+r$, $7n+r$, $11n+r$; $8n+1$, 7
	2, 0, 231	$3n-r$, $7n+r$, $11n-r$; $8n+1$, 7
	3, 0, 154	$3n+r$, $7n-r$, $11n+r$; $8n+3$, 5
	6, 0, 77	$3n-r$, $7n-r$, $11n-r$; $8n+3$, 5
	7, 0, 66	$3n+r$, $7n-r$, $11n-r$; $8n+1$, 7
	11, 0, 42	$3n-r$, $7n+r$, $11n+r$; $8n+3$, 5
	14, 0, 33	$3n-r$, $7n-r$, $11n+r$; $8n+1$, 7
	21, 0, 22	$3n+r$, $7n+r$, $11n-r$; $8n+3$, 5

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—498	1, 0, 498	$3n+r$, $83n+r$; $8n+1$, 3
	3, 0, 166	" ; "
	2, 0, 249	$3n-r$, $83n-r$; $8n+1$, 3
	6, 0, 83	" ; "
—505	1, 0, 505	$5n+r$, $101n+r$; $8n+1$, 5
	5, 0, 101	" ; "
—510	1, 0, 510	$3n+r$, $5n+r$, $17n+r$; $8n+1$, 7
	15, 0, 34	" ; "
	2, 0, 255	$3n-r$, $5n-r$, $17n+r$; $8n+1$, 7
	17, 0, 30	" ; "
	3, 0, 170	$3n-r$, $5n-r$, $17n-r$; $8n+3$, 5
	5, 0, 102	" ; "
	6, 0, 85	$3n+r$, $5n+r$, $17n-r$; $8n+3$, 5
	10, 0, 51	" ; "
—520	1, 0, 520	$5n+r$, $13n+r$; $8n+1$
	5, 0, 104	$5n+r$, $13n-r$; $8n+5$
	8, 0, 65	$5n-r$, $13n-r$; $8n+1$
	13, 0, 40	$5n-r$, $13n+r$; $8n+5$
—522	1, 0, 522	$3n+r$, $29n+r$; $8n+1$, 3
	9, 0, 58	" ; "
	2, 0, 261	$3n-r$, $29n-r$; $8n+5$, 7
	18, 0, 29	" ; "
—525	1, 0, 525	$3n+r$, $5n+r$, $7n+r$; $8n+1$, 5
	21, 0, 25	" ; "
	3, 0, 175	$3n+r$, $5n-r$, $7n-r$; $8n+3$, 7
	7, 0, 75	" ; "
—528	1, 0, 528	$3n+r$, $11n+r$; $8n+1$
	16, 0, 33	" ; "
	3, 0, 176	$3n-r$, $11n+r$; $8n+3$
	11, 0, 48	" ; "
—532	1, 0, 532	$7n+r$, $19n+r$; $8n+1$, 5
	4, 0, 133	" ; "
	7, 0, 76	$7n-r$, $19n+r$; $8n+3$, 7
	19, 0, 28	" ; "
—570	1, 0, 570	$3n+r$, $5n+r$, $19n+r$; $8n+1$, 3
	19, 0, 30	" ; "
	2, 0, 285	$3n-r$, $5n-r$, $19n-r$; $8n+5$, 7
	15, 0, 38	" ; "
	3, 0, 190	$3n+r$, $5n-r$, $19n-r$; $8n+1$, 3
	10, 0, 57	" ; "
	5, 0, 114	$3n-r$, $5n+r$, $19n+r$; $8n+5$, 7
	6, 0, 95	" ; "
—580	1, 0, 580	$5n+r$, $29n+r$; $8n+1$, 5
	4, 0, 145	" ; "
	5, 0, 116	" ; "
	20, 0, 29	" ; "
—598	1, 0, 598	$13n+r$, $23n+r$; $8n+1$, 7
	23, 0, 26	" ; "
	2, 0, 299	$13n-r$, $23n+r$; $8n+3$, 5
	13, 0, 46	" ; "
—600	1, 0, 600	$3n+r$, $5n+r$; $8n+1$
	24, 0, 25	" ; "
	3, 0, 200	$3n-r$, $5n-r$; $8n+3$
	8, 0, 75	" ; "
—630	1, 0, 630	$3n+r$, $5n+r$, $7n+r$; $8n+1$, 7
	9, 0, 70	" ; "
	2, 0, 315	$3n-r$, $5n-r$, $7n+r$; $8n+3$, 5
	18, 0, 35	" ; "
	5, 0, 126	$3n-r$, $5n+r$, $7n-r$; $8n+3$, 5
	14, 0, 45	" ; "
	7, 0, 90	$3n+r$, $5n-r$, $7n-r$; $8n+1$, 7
	10, 0, 63	" ; "
—658	1, 0, 658	$7n+r$, $47n+r$; $8n+1$, 3
	2, 0, 329	" ; "
	7, 0, 94	$7n-r$, $47n+r$; $8n+5$, 7
	14, 0, 47	" ; "
—660	1, 0, 660	$3n+r$, $5n+r$, $11n+r$; $8n+1$, 5
	4, 0, 165	" ; "
	3, 0, 220	$3n+r$, $5n-r$, $11n+r$; $8n+3$, 7
	12, 0, 55	" ; "
	5, 0, 132	$3n-r$, $5n-r$, $11n+r$; $8n+1$, 5
	20, 0, 33	" ; "
	11, 0, 60	$3n-r$, $5n+r$, $11n+r$; $8n+3$, 7
	15, 0, 44	" ; "
—690	1, 0, 690	$3n+r$, $5n+r$, $23n+r$; $8n+1$, 3
	6, 0, 115	" ; "
	2, 0, 345	$3n-r$, $5n-r$, $23n+r$; $8n+1$, 3
	3, 0, 230	" ; "
	5, 0, 138	$3n-r$, $5n-r$, $23n-r$; $8n+5$, 7
	23, 0, 30	" ; "
	10, 0, 69	$3n+r$, $5n+r$, $23n-r$; $8n+5$, 7
	15, 0, 46	" ; "
—742	1, 0, 742	$7n+r$, $53n+r$; $8n+1$, 7
	7, 0, 106	" ; "
	2, 0, 371	$7n+r$, $53n-r$; $8n+3$, 5
	14, 0, 53	" ; "
—760	1, 0, 760	$5n+r$, $19n+r$; $8n+1$
	5, 0, 152	$5n-r$, $19n+r$; $8n+5$
	8, 0, 95	$5n-r$, $19n-r$; $8n+7$
	19, 0, 40	$5n+r$, $19n-r$; $8n+3$
—765	1, 0, 765	$3n+r$, $5n+r$, $17n+r$; $8n+1$, 5
	9, 0, 85	" ; "
	5, 0, 153	$3n-r$, $5n-r$, $17n-r$; $8n+1$, 5
	17, 0, 45	" ; "
—777	1, 0, 777	$3n+r$, $7n+r$, $37n+r$; $8n+1$, 5
	21, 0, 37	" ; "
	3, 0, 259	$3n+r$, $7n-r$, $37n+r$; $8n+3$, 7
	7, 0, 111	" ; "
—793	1, 0, 793	$13n+r$, $61n+r$; $8n+1$, 5
	13, 0, 61	" ; "

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−798	1, 0, 798	$3n+r$, $7n+r$, $19n+r$; $8n+1$, 7
	7, 0, 114	" ; "
	2, 0, 399	$3n-r$, $7n+r$, $19n-r$; $8n+1$, 7
	14, 0, 57	" ; "
	3, 0, 266	$3n-r$, $7n-r$, $19n-r$; $8n+3$, 5
	21, 0, 38	" ; "
	6, 0, 133	$3n+r$, $7n-r$, $19n+r$; $8n+3$, 5
	19, 0, 42	" ; "
−840	1, 0, 840	$3n+r$, $5n+r$, $7n+r$; $8n+1$
	3, 0, 280	$3n+r$, $5n-r$, $7n-r$; $8n+3$
	5, 0, 168	$3n-r$, $5n-r$, $7n-r$; $8n+5$
	7, 0, 120	$3n+r$, $5n-r$, $7n+r$; $8n+7$
	8, 0, 105	$3n-r$, $5n-r$, $7n+r$; $8n+1$
	15, 0, 56	$3n-r$, $5n+r$, $7n+r$; $8n+7$
	21, 0, 40	$3n+r$, $5n+r$, $7n-r$; $8n+5$
	24, 0, 35	$3n-r$, $5n+r$, $7n-r$; $8n+3$
−858	1, 0, 858	$3n+r$, $11n+r$, $13n+r$; $8n+1$, 3
	3, 0, 286	" ; "
	2, 0, 429	$3n-r$, $11n-r$, $13n-r$; $8n+5$, 7
	6, 0, 143	" ; "
	11, 0, 78	$3n-r$, $11n+r$, $13n-r$; $8n+1$, 3
	26, 0, 33	" ; "
	13, 0, 66	$3n+r$, $11n-r$, $13n+r$; $8n+5$, 7
	22, 0, 39	" ; "
−870	1, 0, 870	$3n+r$, $5n+r$, $29n+r$; $8n+1$, 7
	6, 0, 145	" ; "
	2, 0, 435	$3n-r$, $5n-r$, $29n-r$; $8n+3$, 5
	3, 0, 290	" ; "
	5, 0, 174	$3n-r$, $5n+r$, $29n+r$; $8n+3$, 5
	29, 0, 30	" ; "
	10, 0, 87	$3n+r$, $5n-r$, $29n+r$; $8n+1$, 7
	15, 0, 58	" ; "
−897	1, 0, 897	$3n+r$, $13n+r$, $23n+r$; $8n+1$, 5
	13, 0, 69	" ; "
	3, 0, 299	$3n-r$, $13n+r$, $23n+r$; $8n+3$, 7
	23, 0, 39	" ; "
−900	1, 0, 900	$3n+r$, $5n+r$; $8n+1$, 5
	4, 0, 225	" ; "
	9, 0, 100	" ; "
	25, 0, 36	" ; "
−910	1, 0, 910	$5n+r$, $7n+r$, $13n+r$; $8n+1$, 7
	14, 0, 65	" ; "
	2, 0, 455	$5n-r$, $7n+r$, $13n-r$; $8n+1$, 7
	7, 0, 130	" ; "
	5, 0, 182	$5n-r$, $7n-r$, $13n-r$; $8n+3$, 5
	13, 0, 70	" ; "
	10, 0, 91	$5n+r$, $7n-r$, $13n+r$; $8n+3$, 5
	26, 0, 35	" ; "
−912	1, 0, 912	$3n+r$, $19n+r$; $8n+1$
	16, 0, 57	" ; "
− 912	3, 0, 304	$3n+r$, $19n-r$; $8n+3$
	19, 0, 48	" ; "
−1012	1, 0, 1012	$11n+r$, $23n+r$; $8n+1$, 5
	4, 0, 253	" ; "
	11, 0, 92	$11n+r$, $23n-r$; $8n+3$, 7
	23, 0, 44	" ; "
−1045	1, 0, 1045	$5n+r$, $11n+r$, $19n+r$; $8n+1$, 5
	5, 0, 209	" ; "
	11, 0, 95	$5n+r$, $11n-r$, $19n+r$; $8n+3$, 7
	19, 0, 55	" ; "
−1092	1, 0, 1092	$3n+r$, $7n+r$, $13n+r$; $8n+1$, 5
	4, 0, 273	" ; "
	3, 0, 364	$3n+r$, $7n-r$, $13n+r$; $8n+3$, 7
	12, 0, 91	" ; "
	7, 0, 156	$3n+r$, $7n+r$, $13n-r$; $8n+3$, 7
	28, 0, 39	" ; "
	13, 0, 84	$3n+r$, $7n-r$, $13n-r$; $8n+1$, 5
	21, 0, 52	" ; "
−1110	1, 0, 1110	$3n+r$, $5n+r$, $37n+r$; $8n+1$, 6
	10, 0, 111	" ; "
	2, 0, 555	$3n-r$, $5n-r$, $37n-r$; $8n+3$, 5
	5, 0, 222	" ; "
	3, 0, 370	$3n+r$, $5n-r$, $37n+r$; $8n+3$, 5
	30, 0, 37	" ; "
	6, 0, 185	$3n-r$, $5n+r$, $37n-r$; $8n+1$, 7
	15, 0, 74	" ; "
−1122	1, 0, 1122	$3n+r$, $11n+r$, $17n+r$; $8n+1$, 3
	33, 0, 34	" ; "
	2, 0, 561	$3n-r$, $11n-r$, $17n+r$; $8n+1$, 3
	17, 0, 66	" ; "
	3, 0, 374	$3n-r$, $11n+r$, $17n-r$; $8n+1$, 3
	11, 0, 102	" ; "
	6, 0, 187	$3n+r$, $11n-r$, $17n-r$; $8n+1$, 3
	22, 0, 51	" ; "
−1170	1, 0, 1170	$3n+r$, $5n+r$, $13n+r$; $8n+1$, 3
	9, 0, 130	" ; "
	2, 0, 585	$3n-r$, $5n-r$, $13n-r$; $8n+1$, 3
	18, 0, 65	" ; "
	5, 0, 234	$3n-r$, $5n+r$, $13n-r$; $8n+5$, 7
	26, 0, 45	" ; "
	10, 0, 117	$3n+r$, $5n-r$, $13n+r$; $8n+5$, 7
	13, 0, 90	" ; "
−1197	1, 0, 1197	$3n+r$, $7n+r$, $19n+r$; $8n+1$, 5
	9, 0, 133	" ; "
	7, 0, 171	$3n+r$, $7n-r$, $19n+r$; $8n+3$, 7
	19, 0, 63	" ; "
−1290	1, 0, 1290	$3n+r$, $5n+r$, $43n+r$; $8n+1$, 3
	10, 0, 129	" ; "
	2, 0, 645	$3n-r$, $5n-r$, $43n-r$; $8n+5$, 7
	5, 0, 258	" ; "

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—1290	3, 0, 430	$3n+r$, $5n-r$, $43n-r$; $8n+1$, 3
	30, 0, 43	" ; "
	6, 0, 215	$3n-r$, $5n+r$, $43n+r$; $8n+5$, 7
	15, 0, 86	" ; "
—1302	1, 0, 1302	$3n+r$, $7n+r$, $31n+r$; $8n+1$, 7
	7, 0, 186	" ; "
	2, 0, 651	$3n-r$, $7n+r$, $31n+r$; $8n+3$, 5
	14, 0, 93	" ; "
	3, 0, 434	$3n-r$, $7n-r$, $31n-r$; $8n+3$, 5
	21, 0, 62	" ; "
	6, 0, 217	$3n+r$, $7n-r$, $31n-r$; $8n+1$, 7
	31, 0, 42	" ; "
—1320	1, 0, 1320	$3n+r$, $5n+r$, $11n+r$; $8n+1$
	3, 0, 440	$3n-r$, $5n-r$, $11n+r$; $8n+3$
	5, 0, 264	$3n-r$, $5n+r$, $11n+r$; $8n+5$
	8, 0, 165	$3n-r$, $5n-r$, $11n-r$; $8n+5$
	11, 0, 120	$3n-r$, $5n+r$, $11n-r$; $8n+3$
	15, 0, 88	$3n+r$, $5n-r$, $11n+r$; $8n+7$
	24, 0, 55	$3n+r$, $5n+r$, $11n-r$; $8n+7$
	33, 0, 40	$3n+r$, $5n-r$, $11n-r$; $8n+1$
—1365	1, 0, 1365	$3n+r$, $5n+r$, $7n+r$, $13n+r$; $8n+1$, 5
	3, 0, 455	$3n-r$, $5n-r$, $7n-r$, $13n+r$; $8n+3$, 7
	5, 0, 273	$3n-r$, $5n-r$, $7n-r$, $13n-r$; $8n+1$, 5
	7, 0, 195	$3n+r$, $5n-r$, $7n-r$, $13n-r$; $8n+3$, 7
	13, 0, 105	$3n+r$, $5n-r$, $7n-r$, $13n+r$; $8n+1$, 5
	15, 0, 91	$3n+r$, $5n+r$, $7n+r$, $13n-r$; $8n+3$, 7
	21, 0, 65	$3n-r$, $5n+r$, $7n+r$, $13n-r$; $8n+1$, 5
	35, 0, 39	$3n-r$, $5n+r$, $7n+r$, $13n+r$; $8n+3$, 7
—1380	1, 0, 1380	$3n+r$, $5n+r$, $23n+r$; $8n+1$, 5
	4, 0, 345	" ; "
	3, 0, 460	$3n+r$, $5n-r$, $23n+r$; $8n+3$, 7
	12, 0, 115	" ; "
	5, 0, 276	$3n-r$, $5n+r$, $23n-r$; $8n+1$, 5
	20, 0, 69	" ; "
	15, 0, 92	$3n-r$, $5n-r$, $23n-r$; $8n+3$, 7
	23, 0, 60	" ; "
—1582	1, 0, 1582	$7n+r$, $113n+r$; $8n+1$, 7
	2, 0, 791	" ; "
	7, 0, 226	" ; "
	14, 0, 113	" ; "
—1590	1, 0, 1590	$3n+r$, $5n+r$, $53n+r$; $8n+1$, 7
	6, 0, 265	" ; "
	10, 0, 159	" ; "
	15, 0, 106	" ; "
	2, 0, 795	$3n-r$, $5n-r$, $53n-r$; $8n+3$, 5
	3, 0, 530	" ; "
	5, 0, 318	" ; "
	30, 0, 53	" ; "
—1677	1, 0, 1677	$3n+r$, $13n+r$, $43n+r$; $8n+1$, 5
	13, 0, 129	" ; "
—1677	3, 0, 559	$3n+r$, $13n+r$, $43n-r$; $8n+3$, 7
	39, 0, 43	" ; "
—1680	1, 0, 1680	$3n+r$, $5n+r$, $7n+r$; $8n+1$
	16, 0, 105	" ; "
	3, 0, 560	$3n-r$, $5n-r$, $7n-r$; $8n+3$
	35, 0, 48	" ; "
	5, 0, 336	$3n-r$, $5n+r$, $7n-r$; $8n+5$
	21, 0, 80	" ; "
	7, 0, 240	$3n+r$, $5n-r$, $7n+r$; $8n+7$
	15, 0, 112	" ; "
—1705	1, 0, 1705	$5n+r$, $11n+r$, $31n+r$; $8n+1$, 5
	5, 0, 341	" ; "
	11, 0, 155	$5n+r$, $11n+r$, $31n-r$; $8n+3$, 7
	31, 0, 55	" ; "
—1710	1, 0, 1710	$3n+r$, $5n+r$, $19n+r$; $8n+1$, 7
	9, 0, 190	" ; "
	2, 0, 855	$3n-r$, $5n-r$, $19n-r$; $8n+1$, 7
	18, 0, 95	" ; "
	5, 0, 342	$3n-r$, $5n-r$, $19n+r$; $8n+3$, 5
	38, 0, 45	" ; "
	19, 0, 90	$3n+r$, $5n+r$, $19n-r$; $8n+3$, 5
	10, 0, 171	" ; "
—1768	1, 0, 1768	$13n+r$, $17n+r$; $8n+1$
	17, 0, 104	" ; "
	8, 0, 221	$13n-r$, $17n+r$; $8n+5$
	13, 0, 136	" ; "
—1785	1, 0, 1785	$3n+r$, $5n+r$, $7n+r$, $17n+r$; $8n+1$, 5
	21, 0, 85	" ; "
	3, 0, 595	$3n+r$, $5n-r$, $7n-r$, $17n-r$; $8n+3$, 7
	7, 0, 255	" ; "
	5, 0, 357	$3n-r$, $5n-r$, $7n-r$, $17n-r$; $8n+1$, 5
	17, 0, 105	" ; "
	15, 0, 119	$3n-r$, $5n+r$, $7n+r$, $17n+r$; $8n+3$, 7
	35, 0, 51	" ; "
—1813	1, 0, 1813	$7n+r$, $37n+r$; $8n+1$, 5
	37, 0, 49	" ; "
—1848	1, 0, 1848	$3n+r$, $7n+r$, $11n+r$; $8n+1$
	3, 0, 616	$3n+r$, $7n-r$, $11n+r$; $8n+3$
	7, 0, 264	$3n+r$, $7n-r$, $11n-r$; $8n+7$
	8, 0, 231	$3n-r$, $7n+r$, $11n-r$; $8n+7$
	11, 0, 168	$3n-r$, $7n+r$, $11n+r$; $8n+3$
	21, 0, 88	$3n+r$, $7n+r$, $11n-r$; $8n+5$
	24, 0, 77	$3n-r$, $7n-r$, $11n-r$; $8n+5$
	33, 0, 56	$3n-r$, $7n-r$, $11n+r$; $8n+1$
—1885	1, 0, 1885	$5n+r$, $13n+r$, $29n+r$; $8n+1$, 5
	29, 0, 65	" ; "
	5, 0, 377	$5n-r$, $13n-r$, $29n+r$; $8n+1$, 5
	13, 0, 145	" ; "

D	Formen.	Charaktere.
−1918	1, 0, 1918	$7n+r$, $137n+r$; $8n+1$, 7
	2, 0, 959	" ; "
	7, 0, 274	" ; "
	14, 0, 137	" ; "
−2002	1, 0, 2002	$7n+r$, $11n+r$, $13n+r$; $8n+1$, 3
	22, 0, 91	" ; "
	2, 0, 1001	$7n+r$, $11n-r$, $13n-r$; $8n+1$, 3
	11, 0, 182	" ; "
	7, 0, 286	$7n-r$, $11n-r$, $13n-r$; $8n+5$, 7
	13, 0, 154	" ; "
	14, 0, 143	$7n-r$, $11n+r$, $13n+r$; $8n+5$, 7
	26, 0, 77	" ; "
−2020	1, 0, 2020	$5n+r$, $101n+r$; $8n+1$, 5
	4, 0, 505	" ; "
	5, 0, 404	" ; "
	20, 0, 101	" ; "
−2088	1, 0, 2088	$3n+r$, $29n+r$; $8n+1$
	9, 0, 232	" ; "
	8, 0, 261	$3n-r$, $29n-r$; $8n+5$
	29, 0, 72	" ; "
−2170	1, 0, 2170	$5n+r$, $7n+r$, $31n+r$; $8n+1$, 3
	14, 0, 155	" ; "
	2, 0, 1085	$5n-r$, $7n+r$, $31n+r$; $8n+5$, 7
	7, 0, 310	" ; "
	5, 0, 434	$5n+r$, $7n-r$, $31n+r$; $8n+5$, 7
	31, 0, 70	" ; "
	10, 0, 217	$5n-r$, $7n-r$, $31n+r$; $8n+1$, 3
	35, 0, 62	" ; "
−2277	1, 0, 2277	$3n+r$, $11n+r$, $23n+r$; $8n+1$, 5
	9, 0, 253	" ; "
	11, 0, 207	$3n-r$, $11n+r$, $23n-r$; $8n+3$, 7
	23, 0, 99	" ; "
−2310	1, 0, 2310	$3n+r$, $5n+r$, $7n+r$, $11n+r$; $8n+1$, 7
	15, 0, 154	" ; "
	2, 0, 1155	$3n-r$, $5n-r$, $7n+r$, $11n-r$; $8n+3$, 5
	30, 0, 77	" ; "
	3, 0, 770	$3n-r$, $5n-r$, $7n-r$, $11n+r$; $8n+3$, 5
	5, 0, 462	" ; "
	6, 0, 385	$3n+r$, $5n+r$, $7n-r$, $11n-r$; $8n+1$, 7
	10, 0, 231	" ; "
	7, 0, 330	$3n+r$, $5n-r$, $7n+r$, $11n-r$; $8n+1$, 7
	22, 0, 105	" ; "
	11, 0, 210	$3n-r$, $5n+r$, $7n+r$, $11n+r$; $8n+3$, 5
	14, 0, 165	" ; "
	21, 0, 110	$3n-r$, $5n+r$, $7n-r$, $11n-r$; $8n+3$, 5
	35, 0, 66	" ; "
	33, 0, 70	$3n+r$, $5n-r$, $7n-r$, $11n+r$; $8n+1$, 7
	42, 0, 55	" ; "

D	Formen.	Charaktere.
−2542	1, 0, 2542	$31n+r$, $41n+r$; $8n+1$, 7
	2, 0, 1271	" ; "
	31, 0, 82	" ; "
	41, 0, 62	" ; "
−2632	1, 0, 2632	$7n+r$, $47n+r$; $8n+1$
	8, 0, 329	" ; "
	7, 0, 376	$7n-r$, $47n+r$; $8n+7$
	47. 0, 56	" ; "
−2730	1, 0, 2730	$3n+r$, $5n+r$, $7n+r$, $13n+r$; $8n+1$, 3
	30, 0, 91	" ; "
	2, 0, 1365	$3n-r$, $5n-r$, $7n+r$, $13n-r$; $8n+5$, 7
	15, 0, 182	" ; "
	3, 0, 910	$3n+r$, $5n-r$, $7n-r$, $13n+r$; $8n+1$, 3
	10, 0, 273	" ; "
	5, 0, 546	$3n-r$, $5n+r$, $7n-r$, $13n-r$; $8n+5$, 7
	6, 0, 455	" ; "
	7, 0, 390	$3n+r$, $5n-r$, $7n-r$, $13n-r$; $8n+5$, 7
	13, 0, 210	" ; "
	14, 0, 195	$3n-r$, $5n+r$, $7n-r$, $13n+r$; $8n+1$, 3
	26, 0, 105	" ; "
	21, 0, 130	$3n+r$, $5n+r$, $7n+r$, $13n-r$; $8n+5$, 7
	39, 0, 70	" ; "
	35, 0, 78	$3n-r$, $5n-r$, $7n+r$, $13n+r$; $8n+1$, 3
	42, 0, 65	" ; "
−2790	1, 0, 2790	$3n+r$, $5n+r$, $31n+r$; $8n+1$, 7
	9, 0, 310	" ; "
	10, 0, 279	" ; "
	31, 0, 90	" ; "
	2, 0, 1395	$3n-r$, $5n-r$, $31n+r$; $8n+3$, 5
	5, 0, 558	" ; "
	18, 0, 155	" ; "
	45, 0, 62	" ; "
−3108	1, 0, 3108	$3n+r$, $7n+r$, $37n+r$; $8n+1$, 5
	4, 0, 777	" ; "
	21, 0, 148	" ; "
	37, 0, 84	" ; "
	3, 0, 1036	$3n+r$, $7n-r$, $37n+r$; $8n+3$, 7
	7, 0, 444	" ; "
	12, 0, 259	" ; "
	28, 0, 111	" ; "
−3172	1, 0, 3172	$13n+r$, $61n+r$; $8n+1$, 5
	4, 0, 793	" ; "
	13, 0, 244	" ; "
	52, 0, 61	" ; "
−3465	1, 0, 3465	$3n+r$, $5n+r$, $7n+r$, $11n+r$; $8n+1$, 5
	9, 0, 385	" ; "
	5, 0, 693	$3n-r$, $5n-r$, $7n-r$, $11n+r$; $8n+1$, 5
	45, 0, 77	" ; "
	7, 0, 495	$3n+r$, $5n-r$, $7n-r$, $11n-r$; $8n+3$, 7
	55, 0, 63	" ; "
	11, 0, 315	$3n-r$, $5n+r$, $7n+r$, $11n-r$; $8n+3$, 7
	35, 0, 99	" ; "

D	Formen.	Charaktere.
−3480	1, 0, 3480	$3n+r$, $5n+r$, $29n+r$; $8n+1$
	24, 0, 145	" ; "
	3, 0, 1160	$3n-r$, $5n-r$, $29n-r$; $8n+3$
	8, 0, 435	" ; "
	5, 0, 696	$3n-r$, $5n+r$, $29n+r$; $8n+5$
	29, 0, 120	" ; "
	15, 0, 232	$3n+r$, $5n-r$, $29n-r$; $8n+7$
	40, 0, 87	" ; "
−3570	1, 0, 3570	$3n+r$, $5n+r$, $7n+r$, $17n+r$; $8n+1, 3$
	51, 0, 70	" ; "
	2, 0, 1785	$3n-r$, $5n-r$, $7n+r$, $17n+r$; $8n+1, 3$
	35, 0, 102	" ; "
	3, 0, 1190	$3n-r$, $5n-r$, $7n-r$, $17n-r$; $8n+1, 3$
	17, 0, 210	" ; "
	5, 0, 714	$3n-r$, $5n+r$, $7n-r$, $17n-r$; $8n+5, 7$
	14, 0, 255	" ; "
	6, 0, 595	$3n+r$, $5n+r$, $7n-r$, $17n-r$; $8n+1, 3$
	34, 0, 105	" ; "
	7, 0, 510	$3n+r$, $5n-r$, $7n-r$, $17n-r$; $8n+5, 7$
	10, 0, 357	" ; "
	15, 0, 238	$3n+r$, $5n-r$, $7n+r$, $17n+r$; $8n+5, 7$
	42, 0, 85	" ; "
	21, 0, 170	$3n-r$, $5n+r$, $7n+r$, $17n+r$; $8n+5, 7$
	30, 0, 119	" ; "
−3588	1, 0, 3588	$3n+r$, $13n+r$, $23n+r$; $8n+1, 5$
	4, 0, 897	" ; "
	13, 0, 276	" ; "
	52, 0, 69	" ; "
	3, 0, 1196	$3n-r$, $13n+r$, $23n+r$; $8n+3, 7$
	12, 0, 299	" ; "
	23, 0, 156	" ; "
	39, 0, 92	" ; "
−3640	1, 0, 3640	$5n+r$, $7n+r$, $13n+r$; $8n+1$
	56, 0, 65	" ; "
	5, 0, 728	$5n-r$, $7n-r$, $13n-r$; $8n+5$
	13, 0, 280	" ; "
	7, 0, 520	$5n-r$, $7n+r$, $13n-r$; $8n+7$
	8, 0, 455	" ; "
	35, 0, 104	$5n+r$, $7n-r$, $13n+r$; $8n+3$
	40, 0, 91	" ; "
−4180	1, 0, 4180	$5n+r$, $11n+r$, $19n+r$; $8n+1, 5$
	4, 0, 1045	" ; "
	5, 0, 836	" ; "
	20, 0, 209	" ; "
	11, 0, 380	$5n+r$, $11n-r$, $19n+r$; $8n+3, 7$
	19, 0, 220	" ; "
	44, 0, 95	" ; "
	55, 0, 76	" ; "
−4305	1, 0, 4305	$3n+r$, $5n+r$, $7n+r$, $41n+r$; $8n+1, 5$
	21, 0, 205	" ; "

D	Formen.	Charaktere.
−4305	3, 0, 1435	$3n+r$, $5n-r$, $7n-r$, $41n-r$; $8n+3, 7$
	7, 0, 615	" ; "
	5, 0, 861	$3n-r$, $5n+r$, $7n-r$, $41n+r$; $8n+1, 5$
	41, 0, 105	" ; "
	15, 0, 287	$3n-r$, $5n-r$, $7n+r$, $41n-r$; $8n+3, 7$
	35, 0, 123	" ; "
−4488	1, 0, 4488	$3n+r$, $11n+r$, $17n+r$; $8n+1$
	33, 0, 136	" ; "
	3, 0, 1496	$3n-r$, $11n+r$, $17n-r$; $8n+3$
	11, 0, 408	" ; "
	8, 0, 561	$3n-r$, $11n-r$, $17n+r$; $8n+1$
	17, 0, 264	" ; "
	24, 0, 187	$3n+r$, $11n-r$, $17n-r$; $8n+3$
	51, 0, 88	" ; "
−4680	1, 0, 4680	$3n+r$, $5n+r$, $13n+r$; $8n+1$
	9, 0, 520	" ; "
	5, 0, 936	$3n-r$, $5n+r$, $13n-r$; $8n+5$
	45, 0, 104	" ; "
	8, 0, 585	$3n-r$, $5n-r$, $13n-r$; $8n+1$
	65, 0, 72	" ; "
	13, 0, 360	$3n+r$, $5n-r$, $13n+r$; $8n+5$
	40, 0, 117	" ; "
−4810	1, 0, 4810	$5n+r$, $13n+r$, $37n+r$; $8n+1, 3$
	10, 0, 481	" ; "
	26, 0, 185	" ; "
	65, 0, 74	" ; "
	2, 0, 2405	$5n-r$, $13n-r$, $37n-r$; $8n+5, 7$
	5, 0, 962	" ; "
	13, 0, 370	" ; "
	37, 0, 130	" ; "
−4830	1, 0, 4830	$3n+r$, $5n+r$, $7n+r$, $23n+r$; $8n+1, 7$
	46, 0, 105	" ; "
	2, 0, 2415	$3n-r$, $5n-r$, $7n+r$, $23n+r$; $8n+1, 7$
	23, 0, 210	" ; "
	3, 0, 1610	$3n-r$, $5n-r$, $7n-r$, $23n+r$; $8n+3, 5$
	35, 0, 138	" ; "
	5, 0, 966	$3n-r$, $5n+r$, $7n-r$, $23n-r$; $8n+3, 5$
	21, 0, 230	" ; "
	6, 0, 805	$3n+r$, $5n+r$, $7n-r$, $23n+r$; $8n+3, 5$
	69, 0, 70	" ; "
	7, 0, 690	$3n+r$, $5n-r$, $7n+r$, $23n-r$; $8n+1, 7$
	15, 0, 322	" ; "
	10, 0, 483	$3n+r$, $5n-r$, $7n-r$, $23n-r$; $8n+3, 5$
	42, 0, 115	" ; "
	14, 0, 345	$3n-r$, $5n+r$, $7n+r$, $23n-r$; $8n+1, 7$
	30, 0, 161	" ; "
−5160	1, 0, 5160	$3n+r$, $5n+r$, $43n+r$; $8n+1$
	40, 0, 129	" ; "
	3, 0, 1720	$3n+r$, $5n-r$, $43n-r$; $8n+3$
	43, 0, 120	" ; "

D	Formen.	Charaktere.
−5160	5, 0, 1032	$3n-r$, $5n-r$, $43n-r$; $8n+5$
	8, 0, 645	" ; "
	15, 0, 344	$3n-r$, $5n+r$, $43n+r$; $8n+7$
	24, 0, 215	" ; "
−5460	1, 0, 5460	$3n+r$, $5n+r$, $7n+r$, $13n+r$; $8n+1, 5$
	4, 0, 1365	" ; "
	3, 0, 1820	$3n-r$, $5n-r$, $7n-r$, $13n+r$; $8n+3, 7$
	12, 0, 455	" ; "
	5, 0, 1092	$3n-r$, $5n-r$, $7n-r$, $13n-r$; $8n+1, 5$
	20, 0, 273	" ; "
	7, 0, 780	$3n+r$, $5n-r$, $7n-r$, $13n-r$; $8n+3, 7$
	28, 0, 195	" ; "
	13, 0, 420	$3n+r$, $5n-r$, $7n-r$, $13n+r$; $8n+1, 5$
	52, 0, 105	" ; "
	15, 0, 364	$3n+r$, $5n+r$, $7n+r$, $13n-r$; $8n+3, 7$
	60, 0, 91	" ; "
	21, 0, 260	$3n-r$, $5n+r$, $7n+r$, $13n-r$; $8n+1, 5$
	65, 0, 84	" ; "
	35, 0, 156	$3n-r$, $5n+r$, $7n+r$, $13n+r$; $8n+3, 7$
	39, 0, 140	" ; "
−6402	1, 0, 6402	$3n+r$, $11n+r$, $97n+r$; $8n+1, 3$
	3, 0, 2134	" ; "
	22, 0, 291	" ; "
	66, 0, 97	" ; "
	2, 0, 3201	$3n-r$, $11n-r$, $97n+r$; $8n+1, 3$
	6, 0, 1067	" ; "
	11, 0, 582	" ; "
	33, 0, 194	" ; "
−6708	1, 0, 6708	$3n+r$, $13n+r$, $43n+r$; $8n+1, 5$
	4, 0, 1677	" ; "
	13, 0, 516	" ; "
	52, 0, 129	" ; "
	3, 0, 2236	$3n+r$, $13n+r$, $43n-r$; $8n+3, 7$
	12, 0, 559	" ; "
	39, 0, 172	" ; "
	43, 0, 156	" ; "
−7137	1, 0, 7137	$3n+r$, $13n+r$, $61n+r$; $8n+1, 5$
	9, 0, 793	" ; "
	13, 0, 549	" ; "
	61, 0, 117	" ; "
−7140	1, 0, 7140	$3n+r$, $5n+r$, $7n+r$, $17n+r$; $8n+1, 5$
	4, 0, 1785	" ; "
	21, 0, 340	" ; "
	84, 0, 85	" ; "
	3, 0, 2380	$3n+r$, $5n-r$, $7n-r$, $17n-r$; $8n+3, 7$
	7, 0, 1020	" ; "
	12, 0, 595	" ; "
	28, 0, 255	" ; "

D	Formen.	Charaktere.
−7140	5, 0, 1428	$3n-r$, $5n-r$, $7n-r$, $17n-r$; $8n+1, 5$
	17, 0, 420	" ; "
	20, 0, 357	" ; "
	68, 0, 105	" ; "
	15, 0, 476	$3n-r$, $5n+r$, $7n+r$, $17n+r$; $8n+3, 7$
	35, 0, 204	" ; "
	51, 0, 140	" ; "
	60, 0, 119	" ; "
−8710	1, 0, 8710	$5n+r$, $13n+r$, $67n+r$; $8n+1, 7$
	10, 0, 871	" ; "
	26, 0, 335	" ; "
	65, 0, 134	" ; "
	2, 0, 4355	$5n-r$, $13n-r$, $67n-r$; $8n+3, 5$
	5, 0, 1742	" ; "
	13, 0, 670	" ; "
	67, 0, 130	" ; "
−11713	1, 0, 11713	$13n+r$, $17n+r$, $53n+r$; $8n+1, 5$
	13, 0, 901	" ; "
	17, 0, 689	" ; "
	53, 0, 221	" ; "
−13398	1, 0, 13398	$3n+r$, $7n+r$, $11n+r$, $29n+r$; $8n+1, 7$
	22, 0, 609	" ; "
	42, 0, 319	" ; "
	58, 0, 231	" ; "
	2, 0, 6699	$3n-r$, $7n+r$, $11n-r$, $29n-r$; $8n+3, 5$
	11, 0, 1218	" ; "
	21, 0, 638	" ; "
	29, 0, 462	" ; "
	3, 0, 4466	$3n-r$, $7n-r$, $11n+r$, $29n-r$; $8n+3, 5$
	14, 0, 957	" ; "
	66, 0, 203	" ; "
	77, 0, 174	" ; "
	6, 0, 2233	$3n+r$, $7n-r$, $11n-r$, $29n+r$; $8n+1, 7$
	7, 0, 1914	" ; "
	33, 0, 406	" ; "
	87, 0, 154	" ; "
−13860	1, 0, 13860	$3n+r$, $5n+r$, $7n+r$, $11n+r$; $8n+1, 5$
	4, 0, 3465	" ; "
	9, 0, 1540	" ; "
	36, 0, 385	" ; "
	5, 0, 2772	$3n-r$, $5n-r$, $7n-r$, $11n+r$; $8n+1, 5$
	20, 0, 693	" ; "
	45, 0, 308	" ; "
	77, 0, 180	" ; "
	7, 0, 1980	$3n+r$, $5n-r$, $7n-r$, $11n-r$; $8n+3, 7$
	28, 0, 495	" ; "
	55, 0, 252	" ; "
	63, 0, 220	" ; "

D	Formen.	Charaktere.
−13860	11, 0, 1260	$3n-r$, $5n+r$, $7n+r$, $11n-r$; $8n+3$, 7
	35, 0, 396	" ; "
	44, 0, 315	" ; "
	99, 0, 140	" ; "
−17220	1, 0, 17220	$3n+r$, $5n+r$, $7n+r$, $41n+r$; $8n+1$, 5
	4, 0, 4305	" ; "
	21, 0, 820	" ; "
	84, 0, 205	" ; "
	3, 0, 5740	$3n+r$, $5n-r$, $7n-r$, $41n-r$; $8n+3$, 7
	7, 0, 2460	" ; "
	12, 0, 1435	" ; "
	28, 0, 615	" ; "
	5, 0, 3444	$3n-r$, $5n+r$, $7n-r$, $41n+r$; $8n+1$, 5
	20, 0, 861	" ; "
	41, 0, 420	" ; "
	105, 0, 164	" ; "
	15, 0, 1148	$3n-r$, $5n-r$, $7n+r$, $41n-r$; $8n+3$, 7
	35, 0, 492	" ; "
	60, 0, 287	" ; "
	123, 0, 140	" ; "
−19240	1, 0, 19240	$5n+r$, $13n+r$, $37n+r$; $8n+1$
	40, 0, 481	" ; "
	65, 0, 296	" ; "
	104, 0, 185	" ; "
	5, 0, 3848	$5n-r$, $13n-r$, $37n-r$; $8n+5$
	8, 0, 2405	" ; "
	13, 0, 1480	" ; "
	37, 0, 520	" ; "
−19320	1, 0, 19320	$3n+r$, $5n+r$, $7n+r$, $23n+r$; $8n+1$
	105, 0, 184	" ; "
	3, 0, 6440	$3n-r$, $5n-r$, $7n-r$, $23n+r$; $8n+3$
	35, 0, 552	" ; "
	5, 0, 3864	$3n-r$, $5n+r$, $7n-r$, $23n-r$; $8n+5$
	21, 0, 920	" ; "
	7, 0, 2760	$3n+r$, $5n-r$, $7n+r$, $23n-r$; $8n+7$
	15, 0, 1288	" ; "
	8, 0, 2415	$3n-r$, $5n-r$, $7n+r$, $23n+r$; $8n+7$
	23, 0, 840	" ; "
	24, 0, 805	$3n+r$, $5n+r$, $7n-r$, $23n+r$; $8n+5$
	69, 0, 280	" ; "
	40, 0, 483	$3n+r$, $5n-r$, $7n-r$, $23n-r$; $8n+3$
	115, 0, 168	" ; "
	56, 0, 345	$3n-r$, $5n+r$, $7n+r$, $23n-r$; $8n+1$
	120, 0, 161	" ; "

D	Formen.	Charaktere.
−46852	1, 0, 46852	$13n+r$, $17n+r$, $53n+r$; $8n+1$, 5
	4, 0, 11713	" ; "
	13, 0, 3604	" ; "
	17, 0, 2756	" ; "
	52, 0, 901	" ; "
	53, 0, 884	" ; "
	68, 0, 689	" ; "
	212, 0, 221	" ; "